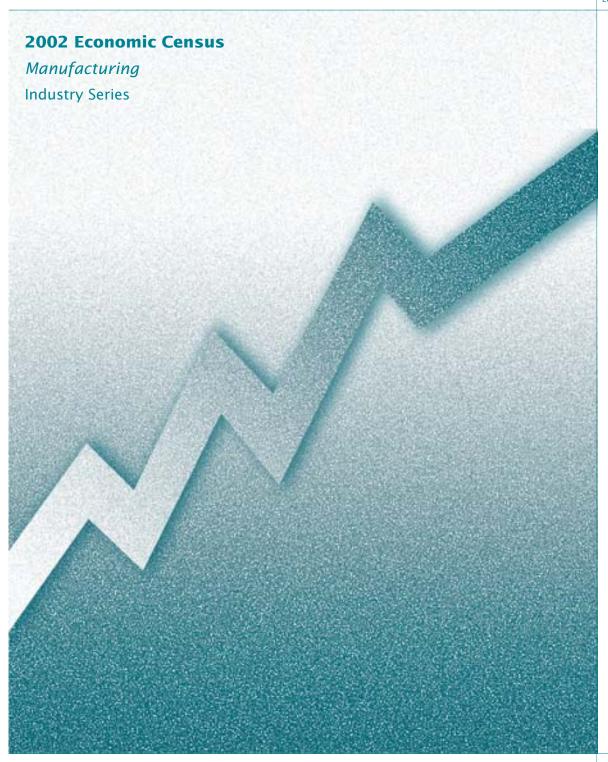
Plastics Bottle Manufacturing: 2002

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Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All		All employees		Production workers			Total	Total	Total capital
Industry and year ¹	Com- panies ²	estab- lish- ments ³	Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	shipments	expendi- tures (\$1,000)
326160, Plastics bottle manufacturing 2002 2001 2000 1999 1998 1997	184 N N N N 245	403 N N N N 466	34 001 36 546 37 287 36 844 35 160 33 933	1 132 845 1 129 306 1 132 707 1 070 003 1 016 353 963 813	29 188 30 932 31 281 31 854 30 045 28 892	57 916 63 277 64 491 65 564 60 820 59 651	903 869 883 889 881 427 845 082 762 464 736 959	3 880 124 3 973 265 3 781 919 3 814 020 3 420 758 3 097 170	4 135 473 4 295 149 4 244 951 3 439 748 3 526 666 3 267 717	7 948 466 8 257 350 7 981 992 7 217 551 6 939 204 6 335 218	560 327 465 228 462 495 778 680 573 254 447 247

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establishments ²		All employees		Production workers						
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
326160, Plastics bottle manufacturing												
United States. Alabama Arizona California Connecticut Florida Georgia Illinois Indiana Iowa Kansas	- 1 - 1 - 1 - - 2 1	403 7 8 555 4 18 19 29 14 8	309 6 4 37 2 11 17 24 13 6 2	34 001 453 317 4 161 437 966 1 636 3 112 1 655 525 175	1 132 845 11 179 11 671 129 500 15 395 32 861 51 352 108 570 52 552 18 513 5 840	29 188 390 287 3 449 355 831 1 468 2 733 1 477 464 149	57 916 868 590 6 208 646 1 775 3 257 4 367 3 074 985 342	903 869 8 410 9 865 99 082 10 779 25 375 42 996 90 540 43 235 14 881 4 452	3 880 124 43 504 41 171 369 121 23 484 113 019 171 990 398 591 170 115 30 469 22 930	4 135 473 50 227 47 787 468 535 26 981 151 321 172 664 359 270 131 371 88 919 26 099	7 948 466 89 871 85 638 837 366 49 734 263 245 343 833 753 716 302 704 122 005 47 621	560 327 4 656 5 498 38 663 1 098 15 867 26 390 65 404 22 624 32 769 2 581
Kentucky Maryland Massachusetts Michigan. Minnesota Missouri New Hampshire New Jersey New York North Carolina.	- - - 1 - 1 -	9 7 6 6 4 15 8 16 9	6 6 4 4 4 11 8 13 9 8	788 829 276 501 130 1 153 678 1 688 1 689 765	28 184 27 259 9 742 18 978 3 934 37 305 26 055 59 154 54 535 23 935	692 755 242 416 115 993 541 1 459 1 258 639	1 508 1 688 461 878 216 1 926 1 156 3 183 2 568 1 323	22 557 23 196 8 139 15 280 3 036 28 604 20 554 47 174 37 932 18 936	66 026 123 444 51 661 67 312 10 158 111 745 114 042 164 799 182 797 71 575	103 087 131 519 12 282 58 155 7 639 88 131 83 297 166 291 98 930 98 286	170 082 250 995 65 138 122 746 17 921 198 232 197 280 334 627 282 746 169 441	22 422 15 562 1 653 5 778 1 065 10 041 6 480 45 013 19 977 13 498
Ohio Pennsylvania South Carolina Texas Virginia Washington Wisconsin	- - 2 -	25 22 9 23 6 7 8	20 21 8 17 4 6	3 881 2 299 525 1 607 908 505 638	127 602 77 412 20 879 55 415 30 925 15 761 21 048	3 529 1 948 466 1 300 814 434 498	6 996 3 909 1 055 2 589 1 675 751 1 054	109 778 60 122 17 349 43 577 25 075 13 303 14 330	418 290 347 565 85 067 240 112 97 318 36 220 62 717	559 072 332 037 138 917 223 886 105 541 77 348 50 593	972 967 673 209 220 676 456 700 201 707 115 776 111 228	67 985 29 775 5 589 25 108 11 681 12 535 9 041

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

³Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
326160, Plastics bottle manufacturing	
Companies ¹ number	184
All establishments ² . number. Establishments with 1 to 19 employees number. Establishments with 20 to 99 employees number. Establishments with 100 employees or more number.	403 94 195 114
All employees³ number Total compensation \$1,000 Annual payroll \$1,000 Total fringe benefits \$1,000	34 001 1 456 027 1 132 845 323 182
Production workers, average for year	29 188 29 010 29 230 29 325 29 092
Production worker hours	57 916 903 869
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	4 135 473 3 761 196 34 090 14 654 302 788 22 745
Quantity of electricity purchased for heat and power. 1,000 kWh. Quantity of electricity generated less sold for heat and power 1,000 kWh.	5 458 415 D
Total value of shipments \$1,000 Primary products value of shipments \$1,000 Secondary products value of shipments \$1,000 Total miscellaneous receipts \$1,000 Value of resales \$1,000 Contract receipts \$1,000 Other miscellaneous receipts \$1,000	7 948 466 7 652 574 236 292 59 600 39 165 D
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industries \$1,000.	97 7 950 708 7 652 574 298 134
Coverage ratiopercent	96
Value added\$1,000	3 880 124
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	703 706 373 440 66 863 263 403
Total inventories, end of year \$1,000 Finished goods inventories \$1,000 Work-in-process inventories \$1,000 Materials and supplies inventories \$1,000	764 790 443 119 64 315 257 356
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000. Total capital expenditures (new and used) \$1,000. Buildings and other structures (new and used) \$1,000. Machinery and equipment (new and used) \$1,000. Automobiles, trucks, etc., for highway use \$1,000. Computers and peripheral data processing equipment \$1,000. All other expenditures for machinery and equipment \$1,000. Total retirements \$1,000. Gross value of depreciable assets at end of year \$1,000.	5 928 602 560 327 36 320 524 007 7 420 18 465 498 122 221 444 6 267 485
Depreciation charges during year	463 804
Total rental payments \$1,000. Buildings and other structures \$1,000. Machinery and equipment \$1,000.	154 206 97 630 56 576
Total other expenses ⁴ \$1,000. Response coverage ratio ⁵ percent. Repair and maintenance services of buildings and/or machinery ⁴ \$1,000. Communications services ⁴ \$1,000. Legal services ⁴ \$1,000. Accounting, auditing, and bookkeeping services ⁴ \$1,000. Advertising and promotional services ⁴ \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ \$1,000. Refuse removal (including hazardous waste) services ⁴ \$1,000. Management consulting and administrative services ⁴ \$1,000. Taxes and license fees ⁴ \$1,000. All other expenses ⁴ \$1,000.	345 448 98 106 919 9 097 3 493 2 165 3 184 3 939 7 374 6 564 28 606 174 106

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All employees		Pr	oduction worke	ers		Total	Total	Total
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	capital expendi- tures (\$1,000)
326160, Plastics bottle manufacturing											
All establishments Establishments with — 1 to 4 employees 5 to 9 employees 10 to 19 employees 20 to 49 employees 5 to 99 employees 50 to 99 employees 100 to 249 employees 500 to 999 employees 500 to 999 employees 1,000 to 2,499 employees 1,000 to 2,499 employees 2,500 employees or more	7 5 3 1 - - -	403 40 23 31 78 117 96 13 4	34 001 89 c 440 2 589 8 481 14 313 4 271 2 574 9	1 132 845 2 909 D 14 898 86 223 281 232 493 187 139 705 75 523 D	29 188 80 D 393 2 169 7 341 12 136 3 693 2 193 D	57 916 163 D 813 4 584 15 359 24 673 6 941 2 988 D	903 869 2 380 D 12 375 64 118 219 950 392 543 115 201 60 442 D	3 880 124 10 096 D 60 986 347 181 992 095 1 750 303 354 093 261 750 D	4 135 473 8 640 D 55 107 326 956 1 033 399 2 011 614 348 040 146 245 D	7 948 466 18 630 D 115 734 644 251 2 001 859 3 744 408 702 578 410 527 D	560 327 6 566 D 20 021 40 824 107 841 289 238 48 767 30 895 D
Administrative records ⁴	9	58	292	9 458	260	532	7 800	28 485	30 422	58 907	3 937

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or		A.II	All em	ployees	Production workers				Total	Total	Total
product class code	Industry or primary product class	estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	capital expendi- tures (\$1,000)
326160	Plastics bottle manufacturing	403	34 001	1 132 845	29 188	57 916	903 869	3 880 124	4 135 473	7 948 466	560 327
3261600	Plastics bottles	403	34 001	1 132 845	29 188	57 916	903 869	3 880 124	4 135 473	7 948 466	560 327

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

		Number of		Product shipments		
Product code	Product	companies with shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)	
326160	Plastics bottle manufacturing	N N	X	X	7 950 708 6 451 880	
3261600	Plastics bottles	N.	X	×	7 950 708	
32616001	1997 Plastics bottles	N N	ŝ	ĺ ŝ	6 451 880 7 846 731	
3261600100	997 Plastics bottles	160	X	X	6 123 994 7 846 731	
3261600Y	1997 Plastics bottles, nsk, total	183 N	X	X	6 123 994 103 977	
3261600YWW	Plastics bottles, nsk, for nonadministrative-record establishments	N	X	, ×	327 886	
	1997	N N	X X	X	45 930 248 408	
3261600YWY	Plastics bottles, nsk, for administrative-record establishments	N N	X	X	58 047 79 478	

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Not applicable for this report.]

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
326160	Plastics bottle manufacturing		
00900001	Total materials		3 761 196 2 961 703
32121909	1997. Hardboard	. X	2 961 703 980 2 633
325000A4	Industrial inorganic chemicals (excluding inorganic pigments, plastics resins, industrial and synthetic organic chemicals, synthetic dyes, pigments, and all other chemicals and allied products)		2 633 D
	1997.		Ň
32513106	Inorganic pigments		3 917 N
32521105	Plastics resins consumed in the form of granules, pellets, powders, liquids, etc	. X	2 469 068 1 791 901
325100A1	Industrial organic and synthetic organic chemicals, including plasticizers (excluding synthetic		
	dyes, pigments, and toners)		D D
32513200	Synthetic dyes, pigments, lakes, and toners		45 114 15 827
32500042	All other chemicals and allied products (excluding industrial inorganic chemicals, plastics resins, and industrial organic and synthetic organic chemicals)		13 027 D
	1997.	. X	N
32610013	Plastics products consumed in the form of sheets, rods, tubes, film, and other shapes		338 359 373 502
32599100	Custom compounded plastics resins (purchased)		62 686 18 789
32210015	Paper and paperboard products (excluding paperboard boxes, containers, and corrugated		00.004
	paperboard)	. X	32 224 26 299
32221001	Paperboard containers, boxes, and corrugated paperboard		198 116 211 451
33322000	Parts and attachments specially designed for plastics working machinery		80 224
00999803	Spent or post-consumer plastics (purchased) 1997.	. X	10 850 35 093
00970099	All other materials and components, parts, containers, and supplies.	. X	199 798 223 369
00971000	Materials, ingredients, containers, and supplies, nsk	. X	223 369 279 124 241 810

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.